



Southern Nuclear  
Operating Company, Inc.  
3535 Colonnade Parkway  
Birmingham, AL 35243  
Tel 205.992.7079

May 4, 2020

Docket Nos.: 52-025  
52-026

ND-20-0504

U.S. Nuclear Regulatory Commission  
ATTN: Document Control Desk  
Washington, DC 20555-0001

Southern Nuclear Operating Company  
Vogtle Electric Generating Plant Units 3 and 4  
Transmittal of Section 404 Permit Modification Request

Ladies and Gentlemen:

In accordance with Section 3.0 of the Vogtle Electric Generating Plant (VEGP) Units 3 and 4 Environmental Protection Plan, Appendix B to Combined Operating Licenses NPF-91 and NPF-92, respectively, Southern Nuclear Operating Company is submitting a copy of the proposed Permit Modification Request for U.S. Army Corps of Engineers (USACE) Permit No. SAS-2007-01837. As required by the USACE, this modification request was submitted electronically.

Enclosure 1 contains a copy of the permit modification request.

This letter contains no regulatory commitments. This letter has been reviewed and determined not to contain security-related information.

If you have any questions, please contact Ms. Amy Chamberlain at (205) 992-6361.

Respectfully submitted,

Amy C. Chamberlain  
Manager, Regulatory Affairs  
Southern Nuclear Operating Company

Enclosure: 1) Vogtle Electric Generating Plant (VEGP) Units 3 and 4, U.S. Army Corps of Engineers Section 404 Permit No. SAS-2007-01837 Modification Request

cc:

Southern Nuclear Operating Company / Georgia Power Company

Mr. S. E. Kuczynski (w/o enclosures)

Mr. P. P. Sena III (w/o enclosures)

Mr. M. D. Meier (w/o enclosures)

Mr. D. H. Jones (w/o enclosures)

Mr. G. Chick

Mr. M. Page

Mr. P. Martino

Mr. D. L. McKinney (w/o enclosures)

Mr. T. W. Yelverton (w/o enclosures)

Mr. B. H. Whitley

Ms. C. A. Gayheart

Ms. M. Ronnlund

Mr. D. L. Fulton

Mr. M. J. Yox

Mr. C. T. Defnall

Mr. J. Tupik

Ms. S. Agee

Mr. M. Humphrey

Ms. A. C. Chamberlain

Mr. S. Leighty

Mr. N. Kellenberger

Mr. E. Riffle

Ms. K. Roberts

Mr. J. Haswell

Mr. D. T. Blythe

Mr. K. Warren

Mr. G. Koucheravy

Mr. D. J. Cluney

Ms. K. S. Dye

Mr. A. S. Hendrix

Mr. J. M. DeLano

Document Services RTYPE: VND.LI.L00

File AR.01.02.06

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Mr. J. Eargle

Mr. G. Khouri

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Dalton Utilities

Mr. T. Bundros

Westinghouse Electric Company, LLC

Mr. L. Oriani (w/o enclosures)

Mr. T. Rubenstein (w/o enclosures)

Mr. M. Corletti

Mr. D. Hawkins

Mr. J. Coward

Other

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Ms. L. A. Matis, Tetra Tech NUS, Inc.

Dr. W. R. Jacobs, Jr., Ph.D., GDS Associates, Inc.

Mr. S. Roetger, Georgia Public Service Commission

Ms. S. W. Kernizan, Georgia Public Service Commission

Mr. K. C. Greene, Troutman Sanders

Mr. S. Blanton, Balch Bingham

**Southern Nuclear Operating Company**

**ND-20-0504  
Enclosure 1**

**Vogtle Electric Generating Plant (VEGP) Units 3 and 4**

**U.S. Army Corps of Engineers Section 404 Permit No. SAS-2007-01837 Modification  
Request**

(Enclosure 1 consists of 30 pages, not including this cover page)



May 4, 2020

ND-20-EVC-0428

Vogtle Electric Generation Plant  
Section 404 Permit Modification Request  
USACE Permit SAS-2007-01837

Mr. William Rutlin  
U. S. Army Corps of Engineers  
Savannah District  
Attn: Regulatory Branch  
100 W. Oglethorpe Ave.  
Savannah, GA 31401

Submitted via email: [CESAS-RD-C@usace.army.mil](mailto:CESAS-RD-C@usace.army.mil)

Mr. Rutlin,

Southern Nuclear Operating Company, Inc. (SNC) is requesting a modification to existing U.S. Army Corps of Engineers (USACE) Section 404 permit, Permit SAS-2007-01837, at the Vogtle Electric Generation Plant in Waynesboro, Georgia. The authorized permit included 1.40 acres of wetland impacts for a temporary sedimentation pond. In lieu of removing the temporary sediment basin, SNC is proposing to modify the outlet structure of the temporary sedimentation pond to create a permanent storm water detention basin. The pond currently provides stormwater retention and serves as a best management practice (BMP) to improve the water quality of runoff from the adjacent constructed slopes, River Water Intake Structure (RWIS) facility and other site developments. This proposed modification will not increase wetland impacts, but it would change 1.40 acres of temporary impacts associated with the sedimentation pond to permanent impacts. SNC proposes to purchase additional wetland mitigation credits from an approved wetland mitigation bank to compensate for the conversion of temporary to permanent wetland impacts.

Per your suggested course of action in recent conversations with Mr. Jim DeLano at SNC and Mr. Jonathan Bourdeau at Wood Environment and Infrastructure Solutions, Inc. (Wood), we are submitting the following information to support this modification request. Following receipt of this request, we understand that you will assign this modification request to a project manager in the USACE Coastal Branch for review.

## 1. Background

Alvin W. Vogtle Electric Generation Plant, (VEGP), operated by SNC, is located in central Burke County, near Waynesboro, Georgia, west of the South Carolina border. SNC is currently in the process of constructing VEGP Units 3 and 4. These units are Westinghouse AP 1000 simplified passive advanced light water reactors. The VEGP currently has two operating Westinghouse pressurized water reactors operating at the facility. The new plant footprint for VEGP Units 3 and 4 is adjacent to the west side of VEGP Units 1 and 2.

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To start-up and operate Units 3 and 4, additional surface water supply is necessary. SNC submitted a Section 404 Individual Permit Application to USACE for proposed temporary and permanent impacts to wetlands and streams, as well as compensatory mitigation for the impacts. Compensatory mitigation was the purchase of mitigation credits from approved Georgia wetland mitigation banks. The Section 404 permit (Permit SAS-2007-01837) was subsequently authorized in 2010, and compensatory mitigation credits were purchased in 2011. The original Section 404 Permit was issued on September 30, 2010 for the construction of two new nuclear Units 3 & 4, associated infrastructure, power lines, building construction, water intake structures, access roads, and water discharge pipes at VEGP. The original permit authorized impacts to 9.23 acres of wetlands, 734 linear feet (1.42 acres of open water) along the Savannah River, and 0.07 acres of ephemeral stream. In 2015, prior to the expiration of the 2010 permit, SNC requested a permit extension, and USACE granted a permit extension through 2020.

A total of 6.49 acres of permanent wetland impacts and 2.74 acres of temporary wetland impacts were authorized. To construct the RWIS and the RWIS road, permanent wetland impacts included 5.50 acres of fill and 0.99 acres of dredging. Permitted temporary impacts in this area included 1.40 acres of both dredge and fill and were associated with a sediment basin, installation of silt fence and other stormwater BMPs. The construction activities associated with the authorized permanent impacts are complete. If the proposed permit modification and additional compensatory mitigation are not approved, the temporary impacts that require removal include a temporary sediment basin, grouted riprap and gabion slope protection, a 60'x140' concrete pad, a corrugated metal outlet standpipe, and plywood baffles. The wetland impacts are described and graphically shown on Sheet 1, Proposed Conditions, dated January 15, 2010 as part of the USACE Permit SAS-2007-01837 (Attachment 1). The detailed construction plan for this area, Sheet SV0-0000-XD-012, is provided as Attachment 2.

A summary of the wetland impacts for the project are given in Table 1.

Table 1 – Summary of Wetland Impacts from USACE Permit SAS-2007-01837

Location	Temporary Impacts (acres)	Permanent Impacts (acres)	Total Impacts (acres)	Description
Wetland AO	0.26	2.17	2.43	Fill - Intake access road
	-	3.33	3.33	Fill - Cooling Water Intake System
	1.14	0.99	2.13	Excavate - Cooling Water Intake System and temporary sedimentation pond
Wetland BJ	1.34	-	1.34	Excavate and clear– discharge line and construction access
Ephemeral Stream 403	-	0.07	0.07	Fill – permanent sedimentation basin
<b>TOTAL:</b>	<b>2.74</b>	<b>6.56</b>	<b>9.30</b>	

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## **2. Rationale for Retaining the Temporary Sedimentation Pond and Infrastructure**

SNC's position is that it is both prudent and consistent with Special Condition 9 of the current permit to convert the sedimentation basin and leave the adjacent portion of the access road in place. The basin is currently providing stormwater retention and serves as a BMP to improve water quality runoff from the adjacent constructed slopes, RWIS facility and other site development features (road and storm water conveyances). The temporary sedimentation basin would be converted to a permanent water quality detention basin by modifying the outlet structure. During plant operations, the pond will serve as a BMP to limit potential inadvertent impacts to wetlands or waters of the U.S. from equipment and site infrastructure. Some examples include:

- Plant equipment (a ~500 gallon mineral oil filled transformer and miscellaneous pumps)
- Non-point source pollutants from the adjacent roads and slopes
- Management of storm water runoff from adjacent slopes

Some of the other non-point source pollutants may include oils (from normal vehicle operations) and/or debris from the adjacent road. For example, trash and debris that accumulate in the RWIS will be removed via traveling screens and placed into dumpsters. These dumpsters are hauled off along the road between the pond and the wetlands. The roadway drainage system currently discharges into the pond which serves to enhance the water quality prior to discharge into the wetlands. The constructed slope behind the intake structure is over 100 feet in height and drains toward the pond via a concrete channel at the toe of the slope. The pond serves to buffer the wetlands and Savannah River from the storm water run-off.

Photos of the current condition of the sedimentation basin are shown in Attachment 3.

## **3. Wetland Mitigation Information from the 2010 Permit**

Based on the Mitigation Credit Purchase Evaluation (dated 3/17/2010) from the original permit application, SNC was required to purchase 77.8 freshwater wetland mitigation credits and 2,224 stream mitigation credits (Attachment 4). In accordance with Special Conditions 1 and 2, the required 77.8 wetland mitigation credits and 2,224 stream mitigation credits were purchased in 2011. The wetland credit purchase consisted of 45.53 credits from Phinzy Swamp Wetland Mitigation bank on 4/6/2011 and 32.27 credits from Brushy Creek Mitigation Bank on 4/21/2011 (Attachment 5). The stream credit purchase consisted of 2,224 credits from Bath Branch Stream Mitigation Bank on 2/25/2011 (Attachment 5).

## **4. Proposed Changes to Wetland Impacts and Mitigation**

The proposed permit modification requires converting 1.40 acres of wetland impact from temporary to permanent. SNC has completed the construction activities associated with the disturbance of 1.34 acres of temporary impacts associated with Wetland BJ, performed restoration activities, and terminated the NPDES construction storm water permit. The Notice of Termination (NOT) for permit GAR124823-V2 was submitted July 26, 2018.

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The Wetland and Open Waters Mitigation Worksheet (dated 3/15/2010) from the original permit application indicated that a total of 10.42 mitigation credits would be required for the temporary sediment basin (1.98 credits for fill and 8.44 credits for dredging/excavation). Had the sediment basin been intended to be permanent during the initial permitting, the required credits would have been 12.52 (2.37 for fill and 10.15 for dredging/excavation, calculated by changing the duration of effect on the calculation worksheet from 0.5 to 2.0, Attachment 6). The difference between the temporary and permanent impacts based on the former mitigation calculations is 2.10 wetland mitigation credits (see Table 2 below). SNC proposes to purchase the additional 2.10 wetland mitigation credits from an approved mitigation bank in Georgia.

Table 2 – Required Mitigation Credits Worksheet Information from USACE Permit SAS-2007-01837

Factor	Original Permit: (temp fill) Wetland	Original Permit: (temp dredge) Wetland	Modified to Permanent Fill	Modified to Permanent Dredge
	AO	AO		
Dominant Effect	2.0	1.8	2.0	1.8
Duration of Effect	0.5	0.5	<b>2.0</b>	<b>2.0</b>
Existing Condition	2.0	2.0	2.0	2.0
Lost Kind	2.0	2.0	2.0	2.0
Preventability	1.0	1.0	1.0	1.0
Rarity Ranking	0.1	0.1	0.1	0.1
<b>Sum of r Factors</b>	7.6	7.4	<b>9.1</b>	<b>8.9</b>
Impacted Area	0.26	1.14	0.26	1.14
<b>R x AA:</b>	1.98	8.44	<b>2.37</b>	<b>10.15</b>
	ORIGINAL PERMIT (Temporary Impacts) 10.42		PROPOSED MODIFICATION (Permanent Impacts) <b>12.52</b>	

As of April 28, 2020, the USACE Regulatory In-lieu Fee and Bank Information Tracking System (RIBITS) lists two banks in the Primary Service Area with sufficient wetland mitigation credits (Attachment 7):

- AA Shaw Wetland Mitigation Bank (385.33 credits)
- Phinzy Swamp Phase II Wetland Mitigation Bank (9.75 credits)

SNC purchased a portion of the originally authorized wetland mitigation credits from Phinzy Swamp Mitigation Bank. If USACE approves this permit modification and mitigation approach, SNC will prepare and submit a Statement of Credit Availability (SOCA) from Phinzy Swamp Mitigation Bank to USACE, assuming that they have credits available. If not, SNC will submit a SOCA form from AA Shaw Mitigation Bank. SNC will purchase the additional wetland mitigation credits once authorized by USACE.



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## 5. Conclusion

SNC respectfully requests that USACE authorize this permit modification, which includes updating 1.40 acres of temporary wetland impacts to permanent impacts, and purchasing 2.10 additional wetland mitigation credits as compensation. The existing USACE Permit SAS-2007-01837 expires on September 30, 2020. SNC would like to complete this modification prior to permit expiration.

If you have any questions or require additional information, please contact Mr. Jim DeLano at (205) 992-5419.

Sincerely,



Dale L. Fulton  
Environmental Affairs Manager

## Attachments

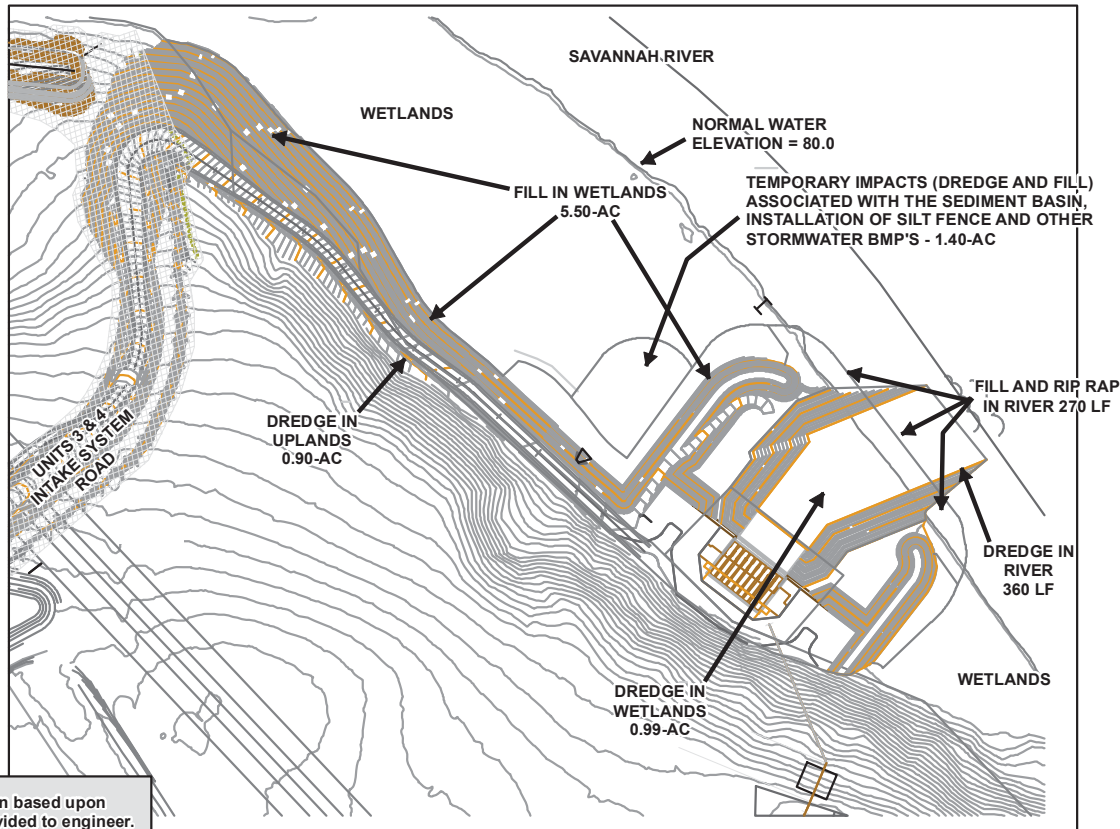
- Attachment 1 – Sheet 1, Proposed Conditions (showing wetland impacts), 1/15/2010 from USACE Section 404 Permit
- Attachment 2 – Sheet 1, Storm Drainage Plan, 9/28/2018
- Attachment 3 – Photographic Log, 2/22/2020
- Attachment 4 – Mitigation Credit Purchase Evaluation, 3/17/2010 from USACE Section 404 Permit
- Attachment 5 – Wetland Credit Purchase Documentation
- Attachment 6 – Wetlands and Open Waters Mitigation Worksheet, 3/15/2010 from USACE Section 404 Permit
- Attachment 7 – USACE RIBITS Wetland Mitigation Bank Credit Availability, April 28, 2020

cc:

J. DeLano  
J. Bourdeau (Wood)  
C. Babb (Wood)

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**ATTACHMENT 1**  
**Sheet 1, Proposed Conditions (showing wetland impacts), 1/15/2010**  
**from USACE Section 404 Permit**



Wetland depiction based upon interpreted data provided to engineer.

Base Map: Provided by The Shaw Group, Inc.

Prepared  
 January 15, 2010  
 By:

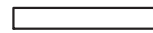
**REGISTER NELSON**  
 Environmental Consultants

45 Parkland Dr. Stockbridge, GA 30281  
 Office: (678) 432-2636 Fax: (678) 432-2464

**Sheet 1**  
**(Proposed Conditions)**

Vogtle Nuclear Power Plant  
 Burke County, Georgia  
 for  
 Southern Nuclear Operating Company, Inc.

275



Feet



X:\Eco-sciences\Plant Vogtle\GIS\maps\Sheet\_1.mxd

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**ATTACHMENT 2**  
**Sheet 1, Storm Drainage Plan, 9/28/2018**



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**ATTACHMENT 3**  
**Photographic Log, 2/22/2020**



**Plant Vogtle 3/4 Section 404 Permit Modification**

**Photographic Log**

	<p>Client: Southern Nuclear Operating Company, Inc.</p> <p>Location: Plant Vogtle 3/4 Water Intake</p> <p>Project No.: 6123201364</p> <p>Date: 02.22.2020</p> <p>Photo No.: 1</p> <p>Photographer: JSK</p> <p>Description: Completed surface water intake (looking NW). Temporary sedimentation pond behind rock berm in center of photo (indicated by arrow).</p>
	<p>Client: Southern Nuclear Operating Company, Inc.</p> <p>Location: Plant Vogtle 3/4 Water Intake</p> <p>Project No.: 6123201364</p> <p>Date: 02.22.2020</p> <p>Photo No.: 2</p> <p>Photographer: JSK</p> <p>Description: View inside of temporary sedimentation pond (looking NW).</p>



**Plant Vogtle 3/4 Section 404 Permit Modification**

**Photographic Log**

	<p>Client: Southern Nuclear Operating Company, Inc.</p> <p>Location: Plant Vogtle 3/4 Water Intake</p> <p>Project No.: 6123201364</p> <p>Date: 02.22.2020</p> <p>Photo No.: 3</p> <p>Photographer: JSK</p> <p>Description: View inside of temporary sedimentation pond, showing outlet structure (looking N).</p>
	<p>Client: Southern Nuclear Operating Company, Inc.</p> <p>Location: Plant Vogtle 3/4 Water Intake</p> <p>Project No.: 6123201364</p> <p>Date: 02.22.2020</p> <p>Photo No.: 4</p> <p>Photographer: JSK</p> <p>Description: View inside of temporary sedimentation pond, showing culvert outfall from surrounding slopes (looking S).</p>





**Plant Vogtle 3/4 Section 404 Permit Modification**

**Photographic Log**

	<p>Client: Southern Nuclear Operating Company, Inc.</p> <p>Location: Plant Vogtle 3/4 Water Intake</p> <p>Project No.: 6123201364</p> <p>Date: 02.22.2020</p> <p>Photo No.: 5</p> <p>Photographer: JSK</p> <p>Description: View inside of temporary sedimentation pond, looking along southeastern berm (looking NE).</p>
	<p>Client: Southern Nuclear Operating Company, Inc.</p> <p>Location: Plant Vogtle 3/4 Water Intake</p> <p>Project No.: 6123201364</p> <p>Date: 02.22.2020</p> <p>Photo No.: 6</p> <p>Photographer: JSK</p> <p>Description: View across temporary sedimentation pond (indicated by arrow) from water intake, showing wetland/floodplain to the north and west of sedimentation basin (looking W).</p>



**Plant Vogtle 3/4 Section 404 Permit Modification**

**Photographic Log**

	<p>Client: Southern Nuclear Operating Company, Inc.</p> <p>Location: Plant Vogtle 3/4 Water Intake</p> <p>Project No.: 6123201364</p> <p>Date: 02.22.2020</p> <p>Photo No.: 5</p> <p>Photographer: JSK</p> <p>Description: Floodplain inundation during site visit on the northwest side of the sedimentation pond (looking NW). Access road drainage is piped to sedimentation pond.</p>
	<p>Client: Southern Nuclear Operating Company, Inc.</p> <p>Location: Plant Vogtle 3/4 Water Intake</p> <p>Project No.: 6123201364</p> <p>Date: 02.22.2020</p> <p>Photo No.: 6</p> <p>Photographer: JSK</p> <p>Description: View of steep slopes draining down to sedimentation pond (looking S).</p>

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**ATTACHMENT 4**  
**Mitigation Credit Purchase Evaluation**  
**3/17/2010 from USACE Section 404 Permit**

### Mitigation Credit Purchase Evaluation

**Project Name:** Vogtle Electric Generating Plant  
**County:** Burke  
**Prepared:** 17-Mar-10

<b>Resource Analysis</b>				
<b>Impact Site Data</b>				
<b>Resource Category</b>	<b>Service Area; HUC</b>	<b>Distance to Impact Site</b>	<b>Credits Needed</b>	
Freshwater Wetland	PSA; 030601061101		77.8	
Stream	PSA; 030601061101		2224	
			<b>Sufficient Credits Available</b>	<b>Recommended for Use</b>
<b>Mitigation Bank Data</b>				
<b>Millhaven Plantation</b>				
Freshwater Wetland	PSA		No	
<b>Phinzy Swamp</b>				
Freshwater Wetland	PSA; 030601030502	24 miles	Yes (based on expected credit release)	X
<b>Bath Branch</b>				
Stream	PSA; 030601060801	27 miles	Yes	X

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Savannah District  
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**ATTACHMENT 5**  
**Wetland Credit Purchase Documentation**

# MITIGATION MANAGEMENT, LLC

April 21, 2011

Shaun L. Blocker  
U.S. Army Corps of Engineers, Regulatory Division  
Project Manager, Coastal Branch  
100 West Oglethorpe Avenue  
Savannah, GA 31401-3640

Subject: Required Credit Sale Statement

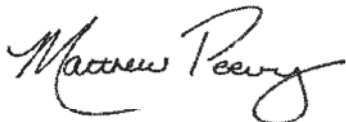
Dear Mr. Blocker:

In accordance with the Savannah District's instructions for reporting credit sales, we are providing the following to document a mitigation bank credit sale:

Date of Sale	<b>April 21, 2011</b>
Permitee USACE File No.	<b>SAS-2007-01837</b>
Permitee	<b>Georgia Power Company</b>
County	<b>Burke</b>
Watershed of Impact	<b>Middle Savannah HUC: 03060106</b>
Stream Credits Sold	<b>0</b>
Wetland Credits Sold	<b>32.27</b>
Project within Service Area of Bank	<b>Primary</b>
Impacts meet Sales Restrictions on Bank	<b>Yes</b>
Mitigation Bank	<b>Brushy Creek Mitigation Bank-USACE File# 200800372</b>

Please contact me with any questions. Also, enclosed is a sales ledger for the Mitigation Bank.

Sincerely,



Matt Peavy  
Mitigation Management, LLC  
10405 Old Alabama Road Connector  
Alpharetta, GA 30022  
(404)376-4698

cc: Mr. Matt Peavy, Bank Sponsor  
Mr. Steve Wright, USACE Savannah District Regulatory Branch  
Mr. Matthew Montz, Southern Nuclear Operating Co.

[WWW.MITIGATIONCREDITS.COM](http://WWW.MITIGATIONCREDITS.COM)

**MERRY LAND**  
PROPERTIES, LLC

4/6/11

Mr. Richard Morgan, RDC  
U.S. Army Corps of Engineers, Savannah  
Regulatory Division – Coastal Branch  
P.O. Box 889  
Savannah, GA 31402-0889

Mr. Steve Wright  
U.S. Army Corps of Engineers  
PO Box 889  
Savannah, GA 31402-0889

RE: Phinizy Swamp Wetland Mitigation Bank

Dear Mr. Morgan and Mr. Wright:

The Phinizy Swamp Wetland Mitigation Bank sold the following mitigation credits:

Date of Sale:	April 6, 2011
Dept. of the Army File No.:	2007-01837
Permittee Name:	Southern Nuclear / Georgia Power
Watershed:	Savannah River
HUC:	03060106
Type of Credits:	Wetland
Number of Credits:	45.53
Project within Service area of Bank:	Yes
Impact meets sales restrictions on Bank:	Yes

Enclosed is our credit ledger referencing this sale. If you have any questions or concerns, please feel free to contact me.

Sincerely,



Elliot Grandin  
of Merry Land Properties, LLC  
sole member of ML South Augusta, LLC, a Georgia corporation  
d/b/a Phinizy Swamp Wetland Mitigation Bank

Enclosures

cc: Rand Hanna, Hull Towill, Norman, Barrett & Salley  
Richard Williams

MERRY LAND  
PROPERTIES, LLC

2/25/11

Mr. Richard Morgan, RDC  
U.S. Army Corps of Engineers, Savannah  
Regulatory Division – Coastal Branch  
P.O. Box 889  
Savannah, GA 31402-0889

Mr. Steve Wright  
U.S. Army Corps of Engineers  
PO Box 889  
Savannah, GA 31402-0889

RE: Bath Branch Stream Mitigation Bank

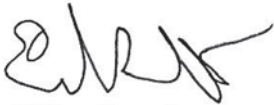
Dear Mr. Morgan and Mr. Wright:

The Bath Branch Stream Mitigation Bank sold the following mitigation credits:

Date of Sale:	February 25, 2011
Dept. of the Army File No.:	2007-01837
Permittee Name:	Southern Nuclear / Georgia Power
Watershed:	Savannah River
County:	Burke
Type of Credits:	Stream
Number of Credits:	2,224.00
Project within Service area of Bank:	Yes
Impact meets sales restrictions on Bank:	Yes

Enclosed is our credit ledger referencing this sale. If you have any questions or concerns, please feel free to contact me.

Sincerely,



Elliot Grandin  
Bath Branch Augusta, LLC

Enclosures

cc: Rand Hanna, Hull Towill, Norman, Barrett & Salley  
Rich Williams – GA DOT



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Regulatory Branch  
Savannah District  
U. S. Army Corps of Engineers

**ATTACHMENT 6**  
**Wetlands and Open Waters Mitigation Worksheet**  
**3/15/2010 from USACE Section 404 Permit**

**WETLANDS AND OPEN WATERS  
 MITIGATION WORKSHEET**

**PROJECT NAME:** Vogtle Electric Generating Plant  
**COUNTY:** Burke  
**PREPARED:** 15-Mar-10

**ADVERSE IMPACT FACTORS**

Factor	Options						
	Fill	Dredge	Impound	Drain	Flood	Clear	Shade
Dominant Effect	2	1.8	1.6	1.4	1.2	1	0.5
Duration of Effects	7+ years 2	5-7 years 1.5	3-5 years 1	1-3 years 0.5	< 1 year 0.1		
Existing Condition	Class 1 2	Class 2 1.5	Class 3 1	Class 4 0.5	Class 5 0.1		
Lost Kind	Kind A 2	Kind B 1.5	Kind C 1	Kind D 0.5	Kind E 0.1		
Preventability	High 2	Moderate 1	Low 0.5	None 0			
Rarity Ranking	Rare 2	Uncommon 0.5	Common 0.1				

† These factors are determined on a case-by-case basis.

**REQUIRED MITIGATION CREDITS WORKSHEET**

Factor	Cooling Intake (fill) - Wetland AO	Cooling Intake (temp fill) - Wetland AO	Cooling Intake (dredge) - Wetland AO	Cooling Intake (temp dredge) - Wetland AO	Outfall Structure (dredge) - Wetland BJ	Outfall Structure (clear) - Wetland BJ	Sedimentation Basin Ephemeral Stream 403
Dominant Effect	2.00	2.00	1.80	1.80	1.80	1.00	2.00
Duration of Effect	2.00	0.50	2.00	0.50	0.10	0.10	2.00
Existing Condition	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Lost Kind	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Preventability	1.00	1.00	1.00	1.00	0.50	0.50	0.50
Rarity Ranking	0.10	0.10	0.10	0.10	0.10	0.10	0.10
Sum of r Factors	9.10	7.60	8.90	7.40	6.50	5.70	8.60
Impacted Area	5.50	0.26	0.99	1.14	0.35	0.99	0.07
R X AA =	50.05	1.98	8.81	8.44	2.28	5.64	0.60

**Total Required Credits =  $\sum (R \times AA) =$  77.8**

ND-20-EVC-0428  
Regulatory Branch  
Savannah District  
U. S. Army Corps of Engineers

**ATTACHMENT 7**  
**USACE RIBITS Wetland Mitigation Bank Credit Availability, April 28, 2020**

**Notice: The credit totals shown do NOT reflect any credit reservations or pending transactions.**  
It is the responsibility of potential purchasers to contact the Sponsor and obtain written confirmation of credit availability.

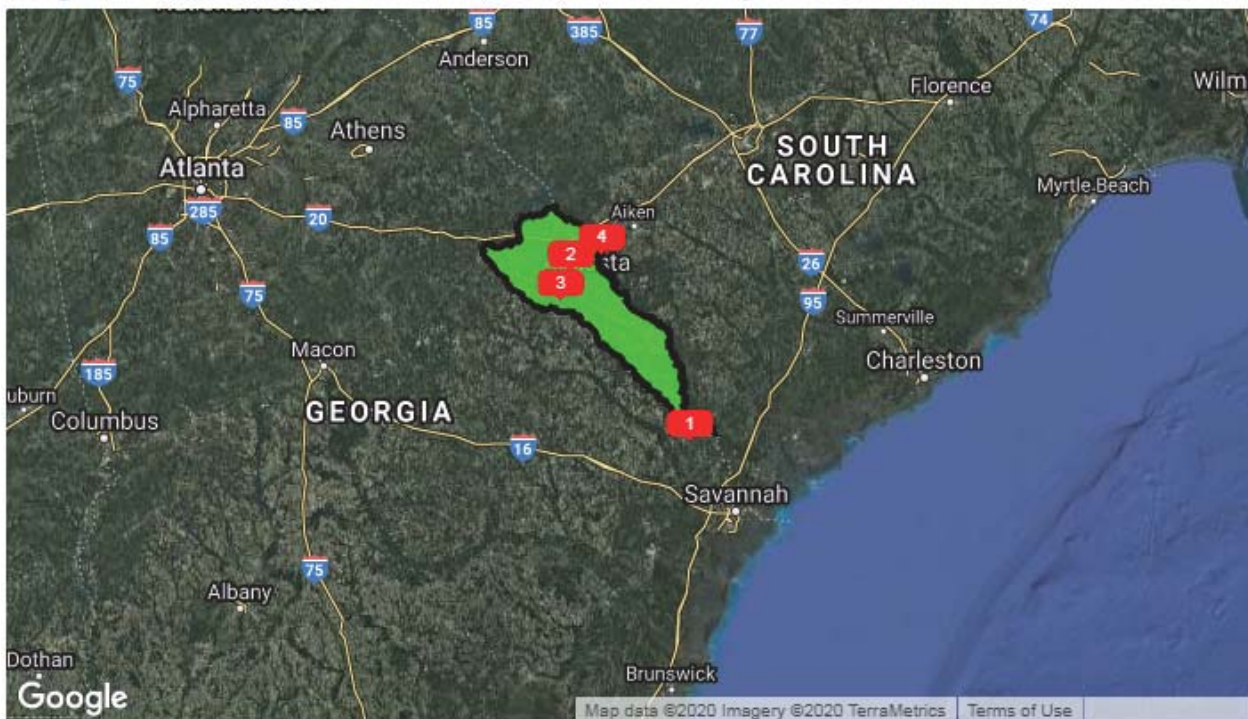
Latitude: 33.15542468028652, Longitude -81.76026971229855

State: Georgia  
County: Burke  
8-digit Hydrologic Unit Code: 03060106  
USFWS Field Office: Georgia  
USACE District: Savannah  
NOAA Region: Southeast

Mitigation/Conservation Banks & ILF Sites in Primary Service Area	4
Mitigation/Conservation Banks & ILF Sites in Secondary Service Area	5
Mitigation/Conservation Banks & ILF Sites in Tertiary Service Area	0
ILF Program Advance Credits	0

Search Criteria:  
excluding single client banks and ILF sites  
excluding banks, ILF sites and ILF programs with zero available credits  
including bank and ILF site service areas of rank Primary, Secondary, Tertiary

### Mitigation/Conservation Banks & ILF Sites in Primary Service Area



**Bank Name:** 1 - AA Shaw

Bank Type: Private Commercial  
 Total Acres: 539.86  
 Distance to impact: 51 Miles  
 Permit No: SAS-2011-00031  
 Bank States: Georgia  
 Comments: 533.29 acres of this bank are expected to generate compensatory wetland mitigation credits. 5.1 acres are areas under an easement and 1.47 acres are areas of wetland buffer. Year 5 Inspection  
<https://arcg.is/11X4Dz0>

Bank Sponsor: **AA Shaw, LLC**  
 Attention: Mr. David Deason  
 1095 Honey Ridge Road  
 Guyton, GA 31312  
 Email: [aashaw.wetlands@gmail.com](mailto:aashaw.wetlands@gmail.com)  
 Phone: (912) 429-9006

Bank POC: **Mr. Brandon Smith**  
 Hodges, Harbin, Newberry, and Tribble, Inc.  
 17 Park of Commerce Boulevard, Suite 110  
 Savannah, GA 31405  
 Email: [bsmith@hhnt.com](mailto:bsmith@hhnt.com)  
 Phone: (912) 298-0230  
 Fax: (912) 298-0234

Bank Manager: **Sarah Spatzer**  
 100 W. Oglethorpe Avenue  
 Savannah, GA 31401  
 Email: [Sarah.F.Spatzer@usace.army.mil](mailto:Sarah.F.Spatzer@usace.army.mil)  
 Phone: (912) 652-5048

<u>Credit Type</u>	<u>Credit Classifications</u>	<u>Assessment Method</u>	<u>Available Credits</u>	<u>Jurisdiction</u>
Wetland	Wetlands	Savannah SOP March 2004	385.33	Federal

Notes:

**Bank Name:** 2 - Bath Branch

Bank Type: Private Commercial  
 Total Acres: 164  
 Distance to impact: 27 Miles

Permit No: SAS-2008-00184  
 Bank States: Georgia

Bank Sponsor: **Bath Branch Augusta, LLC**  
 209 Seventh Street, Suite 300  
 Augusta, GA 30903  
 Email: [elliott.grandin@merryland.com](mailto:elliott.grandin@merryland.com)  
 Phone: (706) 722-6756

Bank POC: **Elliot Grandin**  
 Post Office Box 1417  
 Augusta, GA 30903  
 Email: [elliott.grandin@merryland.com](mailto:elliott.grandin@merryland.com)  
 Phone: (706) 722-6756

Bank Manager: **Sarah Wise**  
 100 W. Oglethorpe Avenue  
 Savannah, GA 31401-3640  
 Phone: (912) 652-5550  
 Fax: (912) 652-5995

<u>Credit Type</u>	<u>Credit Classifications</u>	<u>Assessment Method</u>	<u>Available Credits</u>	<u>Jurisdiction</u>
Stream	Stream	Savannah SOP March 2004	22,879.78	Federal

Notes:

**Bank Name:** 3 - Brushy Creek

Bank Type: Private Commercial  
 Total Acres: 100  
 Distance to impact: 27 Miles  
 Permit No: SAS-2008-00372  
 Bank States: Georgia  
 Bank Sponsor: **The Savannah River Group, LLC**  
 Scott Barnett  
 111 Adam Lee Road  
 Greenville, GA 30222  
 Phone: (878) 469-9504

Bank POC: **Blueway LLC**  
 1551 Jennings Mill Road, Unit 1400-B  
 Athens, GA 30677  
 Email: sales@bluewayland.com  
 Phone: (706) 850-2171

Bank Manager: **Mr. Jared Lopes**  
**Regulatory Specialist**  
 100 West Oglethorpe Avenue  
 Savannah, GA 31401  
 Email: jared.m.lopes@usace.army.mil  
 Phone: (912) 652-5348  
 Fax: (912) 652-5995

<u>Credit Type</u>	<u>Credit Classifications</u>	<u>Assessment Method</u>	<u>Available Credits</u>	<u>Jurisdiction</u>
Stream	Stream	Savannah SOP March 2004	13,662.92	Federal
Wetland	Wetlands	Savannah SOP March 2004	0.00	Federal

Notes:

**Bank Name:** 4 - Phinizy Swamp Phase II

Bank Type: Private Commercial  
 Total Acres: 321  
 Distance to impact: 23 Miles  
 Permit No: SAS-2011-00798  
 Bank States: Georgia  
 Bank Sponsor: **ML South Augusta Inc**  
 Attention: Mr. Elliot Grandin  
 209 7th Street  
 Augusta, GA 30901  
 Phone: (706) 722-6756

Bank POC: **Alton Brown Jr.**  
 Resource and Land Consultants  
 41 Park of Commerce Way, Suite 303  
 Savannah, GA 31405  
 Email: abrown@rlandc.com  
 Phone: (912) 443-5896  
 Fax: (912) 443-5898

Bank Manager: **Mr. Stephen M Fox**  
**Regulatory Specialist**  
 100 West Oglethorpe Avenue  
 Savannah, GA 31401  
 Email: stephen.m.fox@usace.army.mil  
 Phone: (912) 652-6210  
 Fax: (912) 652-5995

**William Rutlin**  
**Chief, Coastal Section**  
 US Army Corps of Engineers, CESAS-RD-C  
 100 W. Oglethorpe Avenue  
 Savannah, GA 31401-3640  
 Email: william.m.rutlin@usace.army.mil  
 Phone: (912) 652-5893  
 Fax: (912) 652-5995

Credit Type Credit Classifications Assessment Method Available Credits Jurisdiction

Wetland Wetlands Savannah SOP March 2004 9.75 Federal

Notes:

**Mitigation/Conservation Banks & ILF Sites in Secondary Service Area**



**Bank Name:** 1 - Black Creek

Bank Type: Private Commercial  
 Total Acres: 651.43  
 Distance to impact: 64 Miles  
 Permit No: SAS-2005-00539  
 Bank States: Georgia  
 Bank Sponsor: **Sligh Environmental**  
 31 Park of Commerce Way  
 Suite 200B  
 Savannah, GA 31405  
 Phone: (912) 232-0451

Bank POC: **Mr. Jeffery P. Williams**  
 31 Park of Commerce Way, 200B  
 Savannah, GA 31405  
 Email: j\_williams@slighec.com  
 Phone: (912) 232-0451

Bank Manager: **Mr. Brian Moore**  
**Project Manager**  
 100 W. Oglethorpe Avenue  
 Savannah, GA 31401-3640  
 Email: brian.moore@usace.army.mil  
 Phone: (912) 652-5349  
 Fax: (912) 652-5995

<u>Credit Type</u>	<u>Credit Classifications</u>	<u>Assessment Method</u>	<u>Available Credits</u>	<u>Jurisdiction</u>
Wetland	Wetlands	Savannah SOP March 2004	42.04	Federal

Notes:

**Bank Name:** 2 - Margin Bay

Bank Type: Private Commercial  
 Total Acres: 229  
 Distance to impact: 74 Miles  
 Permit No: 200701234  
 Bank States: Georgia  
 Bank Sponsor:  
 Bank POC: **Mr. Murphy McLean**  
 P.O. Box 1541  
 Lake City, FL 32056  
 Email: murphmclean@yahoo.com  
 Phone: (904) 813-5732

Bank Manager: **Mr. Jared Lopes**  
**Regulatory Specialist**  
 100 West Oglethorpe Avenue  
 Savannah, GA 31401  
 Email: jared.m.lopes@usace.army.mil  
 Phone: (912) 652-5348  
 Fax: (912) 652-5995

<u>Credit Type</u>	<u>Credit Classifications</u>	<u>Assessment Method</u>	<u>Available Credits</u>	<u>Jurisdiction</u>
Wetland	Wetlands	Savannah SOP March 2004	311.63	Federal



Notes:

**Bank Name:** 3 - Old Thorn Pond

Bank Type: Private Commercial  
Total Acres: 450  
Distance to impact: 59 Miles  
Permit No: 970018920  
Bank States: Georgia  
Bank Sponsor: **OTP, LLC**  
Attention: Mr. Michael Collins  
12 Sedgewick Avenue  
Bluffton, SC 29910  
Email: michaelcollins555@gmail.com  
Phone: (843) 706-7981  
Cell Phone: (912) 507-2099

Bank Manager: **William Rutlin**  
**Chief, Coastal Section**  
US Army Corps of Engineers, CESAS-RD-C  
100 W. Oglethorpe Avenue  
Savannah, GA 31401-3640  
Email: william.m.rutlin@usace.army.mil  
Phone: (912) 652-5893  
Fax: (912) 652-5995

<u>Credit Type</u>	<u>Credit Classifications</u>	<u>Assessment Method</u>	<u>Available Credits</u>	<u>Jurisdiction</u>
Wetland	Wetlands	Savannah SOP March 2004	58.19	Federal

Notes:

**Bank Name:** 4 - Wilhelmina Morgan

Bank Type: Private Commercial  
Total Acres: 325.75  
Distance to impact: 78 Miles  
Permit No: 200601173  
Bank States: Georgia  
Bank Sponsor: **Henry Morgan**  
Post Office Box 10985  
Savannah, GA 31412

Bank POC: **Mike DeMell**  
Environmental Services, Inc.  
101 B Estus Drive  
Savannah, GA 31404  
Email: mdemell@esinc.cc  
Phone: (912) 236-4711  
Cell Phone: (912) 596-3746  
Fax: (912) 236-3668

Bank Manager: **Mr. Jared Lopes**  
**Regulatory Specialist**  
 100 West Oglethorpe Avenue  
 Savannah, GA 31401  
 Email: jared.m.lopes@usace.army.mil  
 Phone: (912) 652-5348  
 Fax: (912) 652-5995

<u>Credit Type</u>	<u>Credit Classifications</u>	<u>Assessment Method</u>	<u>Available Credits</u>	<u>Jurisdiction</u>
Wetland	Wetlands	Savannah SOP March 2004	301.97	Federal

Notes:

Bank Name: 5 - Yam Grandy

Bank Type: Private Commercial

Total Acres: 1357.4

Distance to impact: 55 Miles

Permit No: SAS-2010-00167

Bank States: Georgia

Bank Sponsor: **Georgia L. Flanders, LLC**  
 Post Office Box 830  
 Swainsboro, GA 30401

Bank POC: **Mr. Brandon Smith**  
 Hodges, Harbin, Newberry, and Tribble, Inc.  
 17 Park of Commerce Boulevard, Suite 110  
 Savannah, GA 31405  
 Email: bsmith@hhnt.com  
 Phone: (912) 298-0230  
 Fax: (912) 298-0234

Bank Manager: **Mr. Brian Moore**  
**Project Manager**  
 100 W. Oglethorpe Avenue  
 Savannah, GA 31401-3640  
 Email: brian.moore@usace.army.mil  
 Phone: (912) 652-5349  
 Fax: (912) 652-5995

<u>Credit Type</u>	<u>Credit Classifications</u>	<u>Assessment Method</u>	<u>Available Credits</u>	<u>Jurisdiction</u>
Stream	Stream	Savannah SOP March 2004	13,843.50	Federal
Wetland	Wetlands	Savannah SOP March 2004	193.96	Federal

Notes: